

Serial No.: 09/545,769

Attorney Docket No.: 2000P07572US

IN THE CLAIMS:

This listing of the claims will replace all prior versions and listings of the claims in the application:

1-3 (Canceled)

4. (Currently Amended) A telecommunications system, comprising:
an Ethernet-type local area network; and
one or more telecommunications devices coupled to said Ethernet-type local area network, said one or more telecommunications devices including:
an Internet Protocol (IP) voice communication stack;
a ~~Quality of Service~~ quality of service Ethernet layer; and
a ~~Generate Quality of Service~~ generate quality of service Ethernet layer
interposed between said Internet Protocol voice communication stack and said ~~Quality of Service~~ quality of service Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding ~~Quality of Service~~ quality of service commands to said ~~Quality of Service~~ quality of service Ethernet layer to define an Ethernet ~~Quality of Service~~ quality of service at an Ethernet layer;
said second byte comprising a ~~Type of Service~~ type of service byte;
wherein said ~~Quality of Service~~ quality of service Ethernet layer and said ~~Generate Quality of Service~~ generate quality of service Ethernet layer are modular.

5. (Currently Amended) A telecommunications system, comprising:
an Ethernet-type local area network; and
one or more telecommunications devices coupled to said Ethernet-type local area network, said one or more telecommunications devices including:
an Internet Protocol (IP) voice communication stack;
a ~~Quality of Service~~ quality of service Ethernet layer; and

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a ~~Generate Quality of Service generate quality of service~~ Ethernet layer interposed between said Internet Protocol voice communication stack and said ~~Quality of Service quality of service~~ Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding ~~Quality of Service quality of service~~ commands to said ~~Quality of Service quality of service~~ Ethernet layer to define an Ethernet ~~Quality of Service quality of service~~ at an Ethernet layer;
said second byte comprising a ~~Differentiated Service differentiated service~~ byte;
wherein said ~~Quality of Service quality of service~~ Ethernet layer and said ~~Generate Quality of Service generate quality of service~~ Ethernet layer are modular.

6 – 8 (Canceled)

9. (Currently Amended) A telecommunications device adapted to be coupled to an Ethernet-type local area network, comprising:
an Internet Protocol (IP) voice communication stack;
a ~~Quality of Service quality of service~~ Ethernet layer; and
a ~~Generate Quality of Service generate quality of service~~ Ethernet layer interposed between said Internet Protocol voice communication stack and said ~~Quality of Service quality of service~~ Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding ~~Quality of Service quality of service~~ commands to said ~~Quality of Service quality of service~~ Ethernet layer to define an Ethernet ~~Quality of Service quality of service~~ at an Ethernet layer;
said second byte comprising a ~~Type of Service type of service~~ byte;
wherein said ~~Quality of Service quality of service~~ Ethernet layer and said ~~Generate Quality of Service generate quality of service~~ Ethernet layer are modular.

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10. (Currently Amended) A telecommunications device adapted to be coupled to an Ethernet-type local area network, comprising:

an Internet Protocol (IP) voice communication stack;

a Quality of Service (QoS) Ethernet layer; and

a ~~Generate Quality of Service~~ generate quality of service Ethernet layer

interposed between said Internet Protocol voice communication stack and said ~~Quality of Service~~ QoS Ethernet layer and adapted to intercept a second byte in an IP header of an IP layer, identify from said second byte a quality of service required for individual calls, and generate corresponding ~~Quality of Service~~ QoS commands to said ~~Quality of Service~~ QoS Ethernet layer to define an Ethernet ~~Quality of Service~~ quality of service at an Ethernet layer;

said second byte comprising a ~~Differentiated Service~~ differentiated service byte;

wherein said ~~Quality of Service~~ QoS Ethernet layer and said ~~Generate Quality of Service~~ generate quality of service Ethernet layer are modular.

11. (Currently Amended) A method comprising:

intercepting a second byte from an Internet Protocol (IP) header from an IP layer at a ~~Generate Quality of Service~~ generate quality of service layer interposed between said IP layer and a Quality of Service (QoS) Ethernet layer;

identifying from said second byte a quality of service required for individual calls; and

generating corresponding ~~Quality of Service~~ QoS commands to said ~~Quality of Service~~ QoS Ethernet layer to define an Ethernet ~~Quality of Service~~ quality of service at an Ethernet layer;

wherein said ~~Quality of Service~~ QoS Ethernet layer is modular and wherein said ~~Quality of Service~~ QoS commands are generated at a modular ~~Generate Quality of Service~~ generate quality of service Ethernet layer, wherein said second byte comprises a ~~Type of Service~~ type of service byte or a ~~Differentiated Service~~ differentiated service byte.

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12. (Currently Amended) A method, comprising:
beginning an IP multimedia call;
encapsulating corresponding messages for said IP multimedia call in IP protocol data packets;
setting a second byte of an IP header at an IP layer for said IP protocol data packets;
reading said second byte at a ~~Generate Quality of Service~~ generate quality of service layer interposed between said IP layer and a Quality of Service (QoS) Ethernet layer before said IP protocol data packets are sent over a network;
accessing a lookup table, said lookup table containing entries for mapping said second byte to QoS Ethernet quality of service commands;
sending said QoS Ethernet quality of service commands to a QoS Ethernet layer;
and
sending said IP protocol data packets over an Ethernet network using a quality of service as specified in said QoS Ethernet quality of service commands at an Ethernet layer;
wherein said QoS Ethernet layer is modular and wherein said ~~Quality of Service~~ QoS commands are mapped using a modular ~~Generate Quality of Service~~ generate quality of service Ethernet layer.

13. (Previously Presented) The method according to claim 12, wherein said second byte comprises a type of service byte.

14. (Previously Presented) The method according to claim 12, said second byte comprising a differentiated service byte.

15. (Currently Amended) A system, comprising:
means for beginning an IP multimedia call;
means for encapsulating corresponding messages for said IP multimedia call in IP protocol data packets;

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means for setting a second byte of an IP header at an IP layer for said IP protocol data packets;

means for reading said second byte at a ~~Generate Quality of Service~~ generate quality of service layer interposed between said IP layer and a Quality of Service (QoS) Ethernet layer before said IP protocol data packets are sent over a network;

means for accessing a lookup table, said lookup table containing entries for mapping said second byte to QoS Ethernet quality of service commands;

means for sending said QoS Ethernet quality of service commands to a QoS Ethernet layer; and

means for sending said IP protocol data packets over an Ethernet network using a quality of service as specified in said QoS Ethernet quality of service commands at an Ethernet layer;

wherein said QoS Ethernet layer is modular and wherein said ~~Quality of Service~~ QoS commands are mapped using a modular ~~Generate Quality of Service~~ generate quality of service Ethernet layer.

16. (Previously Presented) The system according to claim 15, wherein said second byte comprises a type of service byte.

17. (Previously Presented) The system according to claim 15, said second byte comprising a differentiated service byte.